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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,581	08/19/2003	Fang-Chen Cheng	29250-001063/US	2943
7590 07/21/2998 HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 8910			EXAMINER	
			TSEGAYE, SABA	
Reston, VA 20195			ART UNIT	PAPER NUMBER
			2619	
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			07/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/642,581 CHENG ET AL. Office Action Summary Examiner Art Unit SABA TSEGAYE 2619 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 02 May 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.3-14 and 18-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1, 3-14 and 18-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

U.S. Patent and Trademark Offic PTOL-326 (Rev. 08-06)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/S5/08)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Response to Amendment

 This Office Action is in response to the amendment filed 05/02/08. Claims 1, 3-14 and 18-20 are pending. Currently no claims are in condition for allowance.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1, 3-14 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vayanos et al. (US 2002/0122400 A1) in view of Zeira et al. (US 2006/0098655 A1).

Regarding claims 1 and 11, Vayanos discloses a method for enhanced uplink data transmission, comprising:

independently generating a transport channel for each transmission mode, each transport channel having an associated transmission time interval (TTI) (0002; 0009; 0027);

multiplexing the generated transport channels to form a composite transport channel, the formed composite channel having one TTI (0033), the TTIs associated with the independently generated transport channels (0029-0031, 0041); and

mapping the composite transport channel onto a physical channel (0033-0034).

Further, Vayanos discloses that a TTI boundary for one transport channel is also a boundary for all transport channels that have an equal or shorter TTI (0041). However, Application/Control Number: 10/642,581

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Vayanos doe not disclose that the composite transport channel being equal to the minimum TTI.

Zeira teaches that all transport channels are mapped to the CCTrCh on a TTI basis, using the smallest TTI within the CCTrCh (0005; 0007).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a minimum TTI, such as that suggested by Zeira, in the system of Vayanos in order to provide less processing delays at both transmitter and receiver units.

Regarding claim 3, Vayanos discloses the method wherein the independently generating step generates first and second transport channels having first and second TTIs, and the second TTI is a multiple of the First TTI (0033; 0037).

Regarding claim 4, Vayanos discloses the method wherein the transmission mode associated with the first transport channel is a scheduled transmission mode and the transmission mode associated with the second transport channel is an autonomous transmission mode (0030-0031).

Regarding claim 5, Vayanos discloses the method wherein the first TTI is 2ms and the second TTI is 10ms (0040).

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Regarding claim 6, Vayanos discloses the method wherein the generating step independently generates transport channels for more than one transmission mode (see fig. 2).

Regarding claim 7, Vayanos discloses the method wherein the TTI of each transmission mode is one of a sub-multiple and multiple of 10 ms (0040).

Regarding claim 8, Vayanos discloses the method wherein the independently generating step generates first and second transport channels having first and second TTIs, the transmission mode associated with the first transport channel is a scheduled transmission mode and the transmission mode associated with the second transport channel is an autonomous transmission mode (0030-0031).

Regarding claim 9, Vayanos discloses the method wherein the first TYI is 2ms and the second TTI is 10ms (0040).

Regarding claim 10, Vayanos discloses the method wherein the mapping step maps the composite transport channel onto the physical channel based on the TTI of the formed composite channel (0034).

Regarding claim 12, Vayanos discloses the method of wireless uplink communication comprising: mapping at least two transport channels within a physical channel (0034), each transport channel having an associated transmission time interval (TTI);

multiplexing the at least tow transport channels to form a composite transport channel, the formed composite channel having one TTI (0033), the TTIs associated with the independently generated transport channels (0029-0031, 0041), the TTIs associated with the at lest two transport channels (0029-0031, 0041).

Further, Vayanos discloses that a TTI boundary for one transport channel is also a boundary for all transport channels that have an equal or shorter TTI (0041). However, Vayanos doe not disclose that the composite transport channel being equal to the minimum TTI.

Zeira teaches that all transport channels are mapped to the CCTrCh on a TTI basis, using the smallest TTI within the CCTrCh (0005; 0007).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use a minimum TTI, such as that suggested by Zeira, in the system of Vayanos in order to provide less processing delays at both transmitter and receiver units.

Regarding claim 13, Vayanos discloses the method wherein each of the transport channels has a distinct transmission time interval ("TTI") associated thereto (0002, 0037).

Regarding claim 14, Vayanos discloses the method wherein the two transport channels are generated for each transmission mode (see fig. 2). Art Unit: 2619

Regarding claim 18, Vayanos discloses the method wherein the transport channels are generated by generating at least a first and a second transport channel having first and second TTIs, and the second TTI is a multiple of the first TTI (0033).

Regarding claim 19, Vayanos discloses the method wherein the transmission mode associated with the first transport channel is a scheduled transmission mode and the transmission mode associated with the second transport channel is an autonomous transmission mode (0031).

Regarding claim 20, Vayanos discloses the method wherein the step of mapping maps the composite transport channel onto the physical channel based on the TTI of the formed composite channel (0034).

Response to Arguments

 Applicant's arguments with respect to claims 1, 3-14 and 18-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in
this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37
CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SABA TSEGAYE whose telephone number is (571)272-3091. The examiner can normally be reached on Monday-Friday (7:30-5:00), First Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wing Chan can be reached on (571) 272-7493. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. T./ Examiner, Art Unit 2619 July 16, 2008

/Wing F. Chan/ Supervisory Patent Examiner, Art Unit 2619 7/16/08